I-COMMAND™

User's Guide

EVINRUDE®

BRP

IMPORTANT: This User's Guide outlines the functionality and usage of the *I-Command*™ Integrated Performance System. Before using the *I-Command* gauges, first read and understand ALL of the supplied product literature, as well as the boat's user's guide and outboard's operator's guide. This User's Guide should be stored onboard for reference.

The photographs, illustrations, and display screens used in this Guide might not depict actual models, figures, data fields, equipment, or software versions, but are intended as representative views for reference only. The continuing accuracy of this Guide cannot be guaranteed.

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Evinrude® E-TEC™
I-Command™
Johnson®
S.A.F.E.™ (Speed Adjusting Failsafe Electronics)

Bombardier Recreational Products Inc.
250 Sea Horse Drive
Waukegan, Illinois 60085 United States

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About this Guide

IMPORTANT: Read this User's Guide carefully before using the *I-Command* gauge series. This User's Guide should be kept onboard at all times during operation.

WARNING

For your safety and the safety of others, follow all safety warnings and recommendations supplied with the boat and outboard. Do not disregard any of the safety precautions and instructions.

Need Assistance?

For any questions regarding the boat or outboard operation, please refer to the boat's user's guide, or outboard's operator's guide for support information.

For questions or problems regarding the *I-Command* gauge series, please contact BRP Customer Support at 1-847-689-7090.

TABLE OF CONTENTS

INTRODUCTION 4
Types of Gauges 4
BASIC I-COMMAND OPERATION . . 5
Powering Up 5
LCD Screen Menus 5
Operating Gauge Buttons 6
Enter Button 6
UP/ DOWN Buttons 6
Exit Function 6
TACHOMETER 7
Tachometer LCD Screens 7
Tachometer System Set-Up 8
LCD Contrast 8
Engine Position 9
Display Units 9
Fuel Tanks 10
Trip Log Reset 12
Engine Data Display 12
Tachometer User Preferences . . . 12
Instrument Backlighting 12
Engine Data 13
RPM 13
Engine Coolant Temperature . . 13
Water Pressure 14
Total Engine Hours 14
Fuel Consumption Rate 14
Oil Tank Level 14
Barometric Pressure 14
Engine Status and Alarms 15
Alarm Screens 16
Clearing Alarms 17
Battery Voltage 18
Engine Trim 18
Split Screens 18
SPEEDOMETER 19
Speedometer LCD Screens 19
Speedometer System Set-up 20
LCD Contrast 20
Speed Units 21
Display Units 21
Speed 21
Fuel Level 22
Fuel Management 22
Fuel Consumption Rate 23
Fuel Economy 24
Estimated Fuel Left 24
Fuel Used 24
Low Fuel Warning 24
Water Depth 25
Water Temperature (Sea) 25
Split Screens 25
SPLIT SCREENS 26
ADDING COMPONENTS 27
Other Gauges 27
PRODUCT WARRANTY 28

INTRODUCTION

The *I-Command* gauge series uses CANBus technology, allowing the sharing of information between different electronic devices which are connected to an electrical network.

CANBus is a Controller Area Network ("CAN") pathway ("Bus"), allowing multiple components to communicate with each other via a central network.

The CANBus collects and manages information from the *Evinrude® E-TEC™* outboard through a central processing unit within the tachometer and then sends that information to the other instrument displays.

The CANBus is also connected to the boat's larger electronics network—the NMEA 2000† Network—which allows it to communicate with other boat instruments, displays, and engine and accessory functions beyond the scope of the engine instruments. This information is displayed on *I-Command* tachometer and speedometer LCD screens.

The *I-Command* gauge series provides the benefit of sharing more information. Additionally, the wiring system is reduced and simplified, resulting in a reduction of weight and complexity.

Types of Gauges

The *I-Command* gauge series is designed to enhance the engine monitoring capabilities of the boater. Each gauge has a different monitoring function.

Required gauge:
- Tachometer

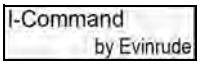
IMPORTANT: The tachometer is the master gauge. If it is removed or disconnected, all *I-Command* gauges will stop operating.

Optional gauges:
- Speedometer
- Fuel level
- Oil level
- Water pressure
- Engine trim position
- Voltmeter

BASIC *I-COMMAND* OPERATION

Powering Up

When the ignition switch is turned ON, and the battery voltage reaches the minimum operating voltage, the power hub will supply power to the instruments and network devices.



The tachometer and speedometer will briefly display a Welcome screen.

The Welcome screen also displays the program version number. Once powered up, the *I-Command* system self-checks for instrument functionality by cycling all of its gauge pointers to their limits, and then back to zero.

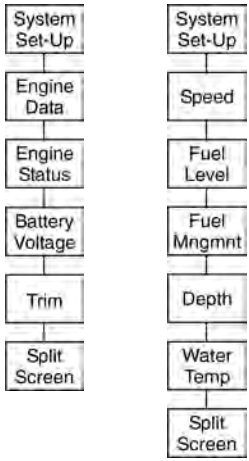
When the ignition switch is turned OFF, engine data is no longer transmitted on the network. All *I-Command* instruments will return to zero, and alarms will be disabled. The network is powered down after a brief delay.

LCD Screen Menus

LCD screen data is presented in a menu tree structure. Some display screens have additional information in sub-menus. The data in the LCD screen can be viewed by scrolling through the displays using the UP / DOWN buttons.

Throughout this guide, menu trees for each gauge are displayed as a reference tool to illustrate the active menu when navigating the LCD screen menus.

Tachometer / Speedometer



Operating Gauge Buttons

ENTER
button

➢ *Enter Button*

The ENTER button allows users to access sub-menus, enter data, and acknowledge alarms.

UP/DOWN
buttons

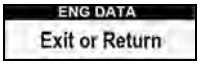
➢ *UP/ DOWN Buttons*

The UP and DOWN buttons will scroll data from screen to screen within the menu or sub-menu.

When searching for data, holding down an UP / DOWN button will scroll the data at a rate of one line per second.

If an UP / DOWN button is held down longer than five seconds, the scroll rate will speed up.

➢ *Exit Function*



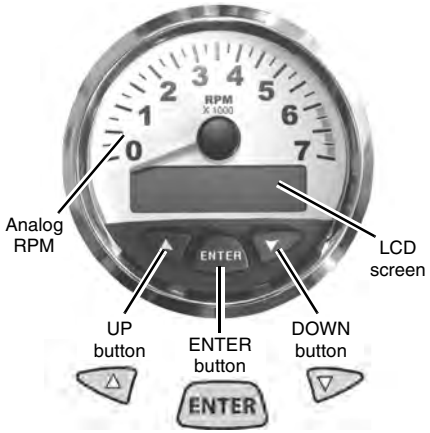
Certain sub-menus include an exit screen. When at an exit screen, press ENTER to exit and return to the previous sub-menu.

To exit a sub-menu without an exit screen, press ENTER and hold for three seconds until the Main Menu appears.

NOTE: When entering a sub-menu, the last LCD screen viewed before exiting that sub-menu is re-displayed. If a sub-menu was exited using the Exit or Return screen, that same screen will reappear the next time that sub-menu is entered. If a sub-menu is entered, and the Exit or Return screen appears, use the UP / DOWN buttons to scroll to the other data screens.

TACHOMETER

The *I-Command* tachometer is the master gauge of the *I-Command* instrument system. It receives information from all other engine and boat functions on the network and displays this information on the dial face and LCD. The tachometer also passes information to the speedometer and other gauges.



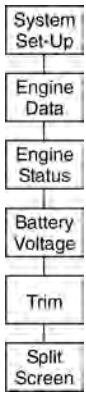
IMPORTANT: The tachometer is the master gauge. If it is removed or disconnected, all *I-Command* gauges will stop operating.

The tachometer displays the engine's rotations (RPM) through the pointer and dial face on the upper portion of the instrument. System information and engine data is presented on the LCD screen in digital form.

Tachometer LCD Screens

The tachometer LCD screen displays a Main Menu and can be navigated using the UP and DOWN buttons. Sub-menus are accessed with the ENTER button. To exit a sub-menu, press and hold ENTER for three seconds, or scroll to the sub-menu's Exit or Return screen and press ENTER. The Main Menu LCD screen will reappear.

Main Menu



NOTE: When entering a sub-menu, the last LCD screen viewed before exiting that sub-menu is redisplayed. Use the UP / DOWN buttons to scroll to the other data screens.

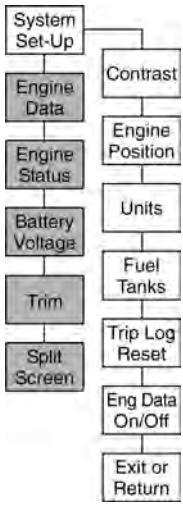
Available Main Menu screens are:

- System Set-up — See page 8.
- Engine Data — See page 13.
- Engine Status / Alarms — See page 15.
- Battery Voltage — See page 18.
- Engine Trim — See page 18.
- Split Screens — See page 26.

Tachometer System Set-Up

The tachometer system set-up allows users to configure engine information output from the tachometer and adjust different display options to suit user needs.

System Set-Up Menu



Viewing the tachometer system set-up — From the tachometer Main Menu, use the UP / DOWN buttons to scroll through LCD screens until the System Set-up screen appears. Press ENTER. Use the UP / DOWN buttons to view the set-up features. Press ENTER to access each feature.

The system set-up controls the following:
- LCD Contrast
- Engine Position
- Display Units
- Fuel Tanks
- Trip Log Reset
- Engine Data ON/OFF
- Exit or Return

➢*LCD Contrast*

The display contrast of the tachometer can be adjusted to aid in viewing LCD screens in different lighting conditions.

Setting LCD Contrast — From the System Set-Up screen, scroll to the Set-Up Contrast display. Press ENTER. “SET” appears in the upper right corner of the LCD screen. Using the UP / DOWN buttons, select a contrast value and press ENTER to set the display.

Contrast settings have a range of ten (1 to 10).

NOTE: Only values 3 to 7 can be stored in memory and retained on subsequent power ups.

➢*Engine Position*

IMPORTANT: In multiple engine installations, there is data on the *I-Command* network for each engine. Each tachometer needs to be set to correspond to the appropriate engine.

Setting an engine position — From the System Set-Up screen, scroll to the Set-Up Engine Position display. Press ENTER. “SET” appears in the upper right corner of the LCD screen. Using the UP / DOWN buttons, select the engine position.

For dual outboards — port = 0, starboard =1

For triple outboards — port = 0, center = 1, starboard = 2

Press ENTER to set the display.

NOTE: If only one outboard is installed, the engine position must be set to port (0).

➢*Display Units*

Data can be displayed in English or Metric, depending on user preference.

Setting display units — From the System Set-Up screen, scroll to the Set-Up Units screen. Press ENTER. “SET” appears in the upper right corner of the LCD screen. Using the UP / DOWN buttons, select English or Metric. Press ENTER to set the display.

DISPLAY UNITS TABLE		
MEASUREMENT	**ENGLISH**	**METRIC**
Barometric Pressure	in. Hg (inches of mercury)	kPa (kilopascals)
Water Pressure	PSI (per square inch)	kPa (kilopascals)
Fuel	g (U.S. gallons)	l (liters)
Temperature	°F (Fahrenheit)	°C (Celsius)
Water Depth	ft. (feet)	mtrs (meters)

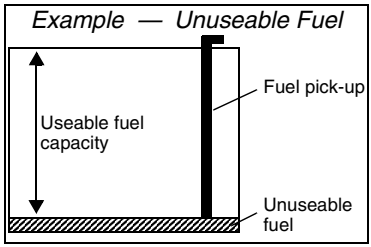
➢ *Fuel Tanks*

NOTE: Setting the fuel tank capacity and calibrating fuel level sensor are only necessary if an optional speedometer gauge and sensor interface module (SIM) are present.

Tank capacity is entered on the tachometer gauge and is an important component of fuel management. Fuel management is a function of the optional *I-Command* speedometer gauge.

When setting fuel tank capacity, it is recommended to factor out a portion as unuseable fuel.

Unuseable Fuel — Due to the boat's fuel tank placement, consider a percentage of the tank's fuel capacity as unuseable fuel. This is fuel that will take up space in the fuel tank, but cannot be reached by the fuel pick-up.



To obtain the most accurate fuel management readings, tank capacity should be confirmed.

GOOD — Fuel management based on fuel sensor's default factory settings.

BETTER — Fuel management based on inputting fuel tank capacity and the fuel sensor's default factory settings.

BEST — Fuel management based on inputting fuel tank capacity and performing fuel sensor calibration.

IMPORTANT: It is recommended the fuel tank size be verified. Some tanks have larger or smaller capacities than posted, and many factors such as unuseable fuel, tank positioning, mounting, and angle must be considered to get an accurate capacity. The boat should be oriented in normal operating position.

Setting fuel tank capacity — Enter the System Set-up screen, and using the UP / DOWN buttons, scroll to Fuel Tank and press ENTER. The Set-up Fuel Tanks screen appears. Press the UP / DOWN buttons to toggle between tank 1 or 2. Press ENTER to select tank 1. "SET" appears in the upper right corner. Input the tank capacity by continually pressing the UP button until reaching the desired tank capacity. Press ENTER to set the tank capacity.

Changing fuel tank capacity — Repeat steps to set a different fuel tank capacity.

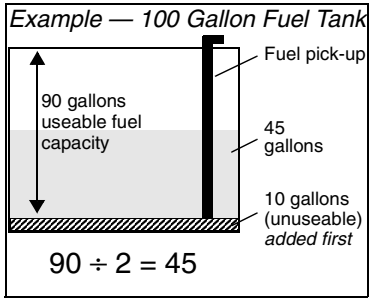
For fuel management data on the optional speedometer, see “Fuel Management” on page 22.

Filling the fuel tank and sensor calibration — After setting the tank capacity, press ENTER to calibrate the fuel sensor. Estimate an amount of fuel as unuseable (overestimating unuseable fuel will add an additional safety fuel reserve). This amount must be added to the fuel tank first. *After the unuseable fuel is added,* press ENTER. The gauge enters an empty value. The unuseable fuel cannot be reached by the fuel pick-up, and the sensor sends an empty reading. The gauge then prompts the user to fill tank 1 to 50%.

Once fuel tank 1 is filled 50%, press ENTER. The gauge waits for a response, then prompts the user to fill tank 1 to 100%. Press ENTER to close the fuel tank calibration menu.

Repeat process for additional fuel tanks.

Fuel sensor calibration example — If the fuel tank has a posted capacity of 100 gallons, unuseable fuel **could be estimated** to be 10 gallons, leaving a useable fuel capacity of 90 gallons. Half of 90 gallons is 45 gallons.



For an empty 100-gallon fuel tank, 10 gallons of *unuseable* fuel is added, an empty value is registered, then 45 additional gallons of fuel must be added to reach 50% of *useable* fuel capacity.

If an error in the filling procedure occurs, the fuel sensor can be re-set.

Re-setting fuel sensor — Turn the key OFF. Press and hold the UP, ENTER, and DOWN buttons. Turn the key ON. The Utilities screen appears. Release the buttons. Using the UP / DOWN buttons, select the fuel tank sensor to be reset. Press ENTER. The fuel sensor returns to its default settings. The default sensor settings do not reflect accurate fuel level, and the sensor must be recalibrated at next re-fueling. Use the UP / DOWN buttons to select additional tanks. After re-setting, scroll to the exit screen. Press ENTER exit the Utilities screen.

➢ *Trip Log Reset*

The trip log is the cumulative total number of gallons (or liters) of fuel used during each boat outing. Fuel usage can be reset to zero by resetting the trip log. The trip log (fuel usage total) can be viewed on the Fuel Used screen of the optional *I-Command* speedometer gauge (See “Fuel Used” on page 24).

Re-setting trip log — From the System Set-Up screen, scroll to the Trip Log Reset display. Press ENTER to reset the trip log. This resets the Fuel Used screen of the speedometer (see “Fuel Used” on page 24).

➢ *Engine Data Display (ON/OFF)*

LCD screens can be turned ON or OFF to “skip” screens that do not display data or are not applicable. When a screen is turned off, the LCD screen will not appear on the engine data menu. (For a list of the available Engine Data screens, see “Engine Data” on page 13.)

Turning a screen ON / OFF — From the System Set-up screen, select the Set-up Engine Data screen by pressing ENTER.

Scroll through the Engine Data screens by pressing UP / DOWN buttons. If the data display is turned on, “ON” appears in the upper right corner. When the desired Engine Data screen appears, press ENTER. “SET” appears in the upper right corner. Using the UP / DOWN button, select ON or OFF. Press ENTER to set the display.

Tachometer User Preferences

➢ *Instrument Backlighting*

Each *I-Command* instrument gauge face is red backlighted for increased low-light visibility. The brightness of the lighting can be adjusted to user preference. Setting the tachometer backlighting will adjust all other gauges on the *I-Command* system. If another tachometer is present, it can be adjusted independently.

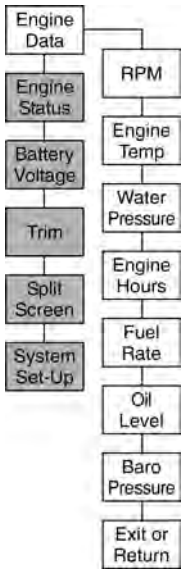
Turning backlighting ON / OFF — Press ▲ and ▼ buttons simultaneously.

Adjusting backlighting — With backlighting on, press UP or DOWN button to adjust the brightness. Once desired brightness is selected, press UP and DOWN buttons simultaneously again to set the adjustment.

Engine Data

The information collected by the network communicates real time data to the *I-Command* tachometer. This information is displayed on the Engine Data LCD screen. The default engine data is displayed on the Engine Data screen of the Main Menu.

Engine Data Menu



Changing default engine data display — To change the default engine data display, scroll to the Engine Data screen. Press ENTER. The Engine Data bar at the top of the screen appears in reverse color. Using the UP / DOWN buttons, view the data. Press and hold ENTER for three seconds to set a specific engine data screen as the default data to be displayed on the Main Menu.

After scrolling through the entire list, an exit screen will display. Press ENTER to return to the Main Menu.

The available Engine Data sub-screens are:
- RPM
- Engine Coolant Temperature
- Water Pressure
- Total Engine Hours
- Fuel Consumption Rate
- Oil Tank Level
- Barometric Pressure
- Exit or Return

➢ *RPM*

RPM is engine revolutions per minute.

➢ *Engine Coolant Temperature*

The coolant temperature is the temperature of the water circulating through the engine.

➢ *Water Pressure*

The pressure displayed is the current pressure of water moving through the engine.

NOTE: Water pressure data capability requires an accessory water pressure transducer kit, P/N 5006214. If the kit is not installed, the Water Pressure screen should be turned OFF. (To turn off a screen display, see “Engine Data Display (ON/OFF)” on page 12.)

➢ *Total Engine Hours*

The total engine hours are the running hours the engine has accumulated since its first start. The display units will be in hours and tenths of hours.

➢ *Fuel Consumption Rate*

The fuel consumption rate is current fuel consumption in gallons (or liters) per hour.

For additional fuel management capabilities on the optional speedometer, see “Fuel Management” on page 22.)

➢ *Oil Tank Level*

The oil tank level displays the level of oil in the oil reservoir. The amount displayed is in percent.

NOTE: The oil tank level display requires an accessory oil tank sender. See an authorized Dealer. By default, the Oil Tank Level screen is turned OFF. If the oil tank sender is installed, the oil tank level display must be turned ON to view data. (To turn on a screen display, see “Engine Data Display (ON/OFF)” on page 12.)

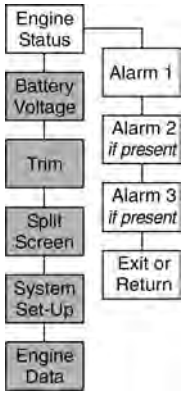
➢ *Barometric Pressure*

The barometric pressure shows the current atmospheric pressure.

Engine Status and Alarms

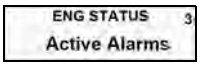
Alarms appear on the Engine Status screen and alert the user of an operating condition that requires action. If an alarm occurs, the Engine Status screen will immediately display the active alarm to indicate what the operating fault is.

Engine Status Menu



IMPORTANT: An alarm will take priority and override any other LCD screen data displays.

Once active, the alarm screen will flash between standard and reverse screen color. Additionally, the two warning LEDs in the tachometer (one on each side of the LCD screen) will illuminate red, and the alarm buzzer will sound.

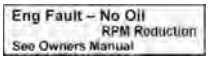
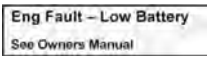
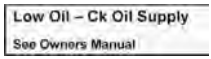


There may be more than one alarm message at the same time. The number displayed in the upper right-hand corner on the active alarm LCD screen advises how many alarms are active.

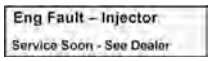
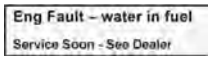
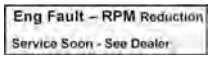
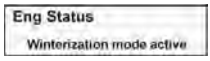
(For typical alarm screens, see “Alarm Screens” on page 16; for instructions on disabling alarms, see “Clearing Alarms” on page 17.)

➢ *Alarm Screens*

The following alarms require action by the operator. Check the outboard's operator's guide to determine the cause of the alarm and any actions required to correct the situation.

Overheat – *RPM Reduction* An overheat condition exists. *S.A.F.E.*™ mode activates. Engine RPM will reduce, and boat speed will slow until cooling is restored.	Overheat – *Engine Shutdown* A critical overheat condition exists. The engine will shutdown and will not restart until it has cooled.
No Oil – *RPM Reduction*  An oil delivery problem exists. *S.A.F.E.* activates. Engine RPM will reduce, and boat speed will slow until oil delivery is restored.	No Oil – *Engine Shutdown* A prolonged oil delivery problem exists. The engine will shutdown and will not run for an extended period until oil delivery is restored.
Low Battery –  The battery is low. Starter motor may not operate, and outboard may not start.	Low Oil – *Check Oil Supply*  The oil tank is low. Refill the oil tank immediately.

The following alarms require Dealer inspection. It is important that an authorized Dealer inspect the outboard and perform any necessary service. Unsafe operating conditions can exist, and outboard damage may result if alarms requiring Dealer service are ignored.

Sensor – *Service soon* There is a problem with one of the outboard's sensors. Seek service from an authorized Dealer upon return to port.	Injector – *Service soon*  There is a problem with one of the outboard's fuel injectors. Seek service from an authorized Dealer upon return to port.
Water in Fuel – *Service soon*  There is water in the fuel tank or fuel delivery system. Seek service from an authorized Dealer upon return to port.	RPM Reduction – *Service soon*  The engine RPM has been reduced to avoid outboard damage due to an unsafe operating condition. Seek service.
Ignition – *Service soon* The outboard's ignition system may be faulty and requires inspection. Seek service from an authorized Dealer upon return to port.	Winterization – *See guide*  The winterization mode has been activated. Refer to the outboard's operator's guide.

➢ *Clearing Alarms*

Acknowledge the alarm by pressing ENTER on the tachometer. Once all alarms have been acknowledged, the alarm buzzer will stop, and the LCD screen will clear. The warning LEDs will remain illuminated until the operating fault is corrected.

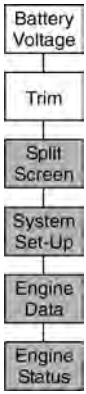
If there is a loss of instrument communications, all affected gauges will return the pointers to zero. The LCD screens will show a blank or zero value for data. Monitoring data will not function until instrument communication is corrected. See an authorized Dealer immediately.

Battery Voltage

From the Main Menu screen, scroll to the Battery Voltage display.

The battery voltage range is 0 to 18 volts, measured in 0.1 volt increments. In multiple engine applications, each tachometer will display the system voltage of its respective engine.

Main Menu



Engine Trim

From the Main Menu screen, scroll to the Engine Trim display.

The engine trim range is 0 to 100 percent, measured in 1 percent increments.

NOTE: Engine tilt is not displayed.

Split Screens

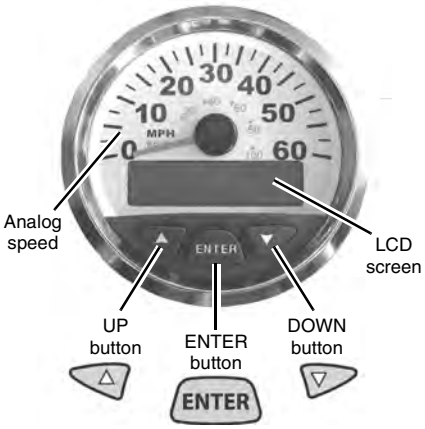
Split screens enable one LCD screen to display two data sources. See “Split Screens” on page 26 for information about accessing and setting LCD split screens on both tachometer and speedometer gauges.

SPEEDOMETER

The optional *I-Command* speedometer provides valuable data regarding boat speed and other boat related functions.

Speed readings require a GPS or paddlewheel. Fuel management requires a sensor interface module (SIM).

See an authorized Dealer for accessories.



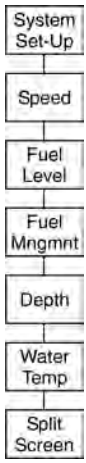
The speedometer displays the boat's speed through the pointer and dial face on the upper portion of the instrument. If desired, the speedometer will also display the speed digitally on the LCD screen. Optional fuel management is also displayed by the speedometer.

Speedometer LCD Screens

The speedometer LCD screen displays a Main Menu and can be navigated using the UP and DOWN buttons. Sub-menus are accessed with the ENTER button. To exit a sub-menu, press and hold ENTER for three seconds. The Main Menu screen will reappear.

NOTE: When entering a sub-menu, the last LCD screen viewed before exiting that sub-menu is redisplayed. Use the UP / DOWN buttons to scroll to the other data screens.

Main Menu

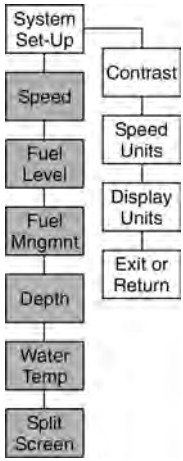


Available Main Menu screens are:
- System Set-Up — See page 20.
- Speed — See page 21.
- Fuel Level — See page 22.
- Fuel Management — See page 22.
- Water Depth — See page 25.
- Sea Water Temperature — See page 25.
- Split Screens — See page 26.

Speedometer System Set-up

The speedometer system set-up allows users to configure engine information output from the speedometer and adjust different display options to suit user needs.

System Set-Up Menu



Viewing the speedometer system set-up — From the speedometer Main Menu, use the UP / DOWN buttons to scroll through the LCD screens until the System Set-up screen appears. Press ENTER. Use the UP / DOWN buttons to view the set-up features. Press ENTER to access each feature.

The system set-up controls the following:
- LCD Contrast
- Speed Units
- Display Units

➢*LCD Contrast*

The display contrast of the speedometer can be adjusted to aid in viewing LCD screens in different lighting conditions.

Setting LCD Contrast — From the System Set-Up screen, scroll to the Set-Up Contrast display. Press ENTER. “SET” appears in the upper right corner of the LCD screen. Using the UP / DOWN buttons, select a contrast value and press ENTER to set the display.

Contrast settings have a range of ten (1 to 10).

NOTE: Only values 3 to 7 can be stored in memory and retained on subsequent power ups.

Adjusting backlighting — Speedometer gauge backlighting is set by the tachometer gauge. (To adjust the backlighting, see “Instrument Backlighting” on page 12.)

➢*Speed Units*

If the speedometer is set for English display units, the speed units display will default to miles per hour (mph). Speed displays can also be set to knots (kn), or kilometers per hour (kph).

Changing speed units display — From the System Set-Up screen, scroll to the Set-Up Speed display. Press ENTER. Using the UP / DOWN buttons, select a display unit. Press ENTER to set the unit.

➢*Display Units*

Data can be displayed in English or Metric, depending on user preference.

Setting display units — From the System Set-Up screen, scroll to the Set-Up Units screen. Press ENTER. "SET" appears in the upper right corner of the LCD screen. Using the UP / DOWN buttons, select English or Metric. Press ENTER to set the display. (For a list of the display units, see the "Display Units Table" on page 9.)

Speed

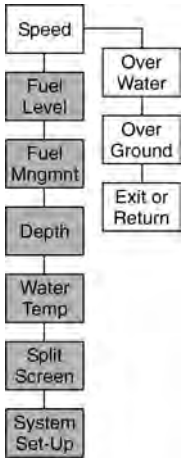
Boat speed is measured as speed over water, speed over ground, or both.

Speed over water (SOW) requires a speedometer pick-up paddle wheel. The speed is measured by calculating the rate of water passing under the boat.

Speed over ground (SOG) requires a GPS antenna. The speed is measured by calculating the movement of the boat in relation to satellite signals.

See an authorized Dealer for accessories.

Speed Menu



Changing Speed Measurement — To change the speed display, scroll to the Speed screen. Press ENTER. The Speed bar at the top of the Speed screen appears in reverse color, and the speed measurement is displayed. Using the UP / DOWN button, select Over Water or Over Ground. Press and hold ENTER for three seconds to set the display. The Main Menu appears after the speed measurement is set.

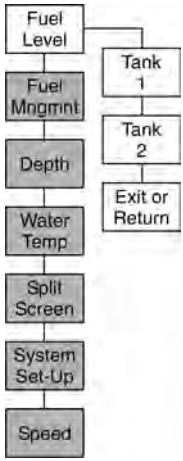
Fuel Level

The Fuel Level screen displays in percent the amount of fuel in the selected fuel tank. The default fuel tank is displayed on the Fuel Level screen of the Main Menu.

Changing default fuel tank — To change the default fuel tank, scroll to the Fuel Level screen. Press ENTER. The Fuel Level bar at the top of the screen appears in reverse color, and fuel tank 1 is displayed. Using the UP / DOWN button, select tank 2. Press and hold ENTER for three seconds to set the display. The default fuel tank is set and will appear on the Fuel Level screen of the Main Menu.

At the Fuel Level screen, press the DOWN button to reach the exit screen. Press ENTER to return to the Main Menu.

Fuel Level Menu

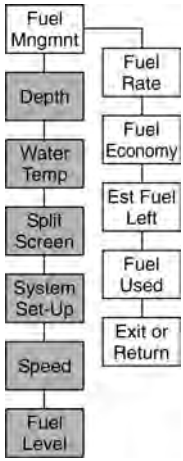


Fuel Management

The Fuel Management screen is designed to give users an approximate representation of fuel usage and fuel level. Due to various factors such as fuel system configuration, fuel tank size and shape, and boating conditions, the fuel gauge is only a guide to fuel management and cannot be relied upon to display an exact reading. **Return to port immediately if the low fuel alarm is activated.**

The *I-Command* system can monitor fuel level and consumption. Fuel management is an optional feature, and requires the installation of an *I-Command* speedometer and a sensor interface module (SIM). It is recommended these components be installed by an authorized Dealer.

Fuel Management Menu



To improve fuel management accuracy, calibrate all fuel tank level sensors so all information can be collected. See “Fuel Tanks” on page 10 for detailed instructions on fuel tank calibration.

IMPORTANT: Always confirm fuel level before boating, and check fuel level often. The fuel level gauge is designed to be a reference for fuel level during usage; however, it is recommended boat operators apply the fuel usage principle of 1/3 fuel to destination, 1/3 fuel to return to port, and 1/3 fuel for reserve.

⚠ WARNING ⚠

Running out of fuel could cause the operator of the boat to have diminished or no control of the vessel, presenting a risk of personal injury to the operator, passengers, and people who are nearby.

Viewing Fuel Management screens — From the Main Menu, scroll to the Fuel Management screen. Press ENTER and use the UP / DOWN buttons to scroll through the screens.

Selecting fuel management display — To select the fuel management display, scroll to the Fuel Management screen. Press ENTER. The Fuel Management bar at the top of the screen appears in reverse color. Using the UP / DOWN buttons, view the data. Press and hold ENTER for three seconds to select a data display to be shown on the Main Menu.

➢ *About Fuel Management Displays*

The fuel level displays—both digital and analog—receive an update from the electronics every 10 seconds. The programming is designed to filter out rapid fluctuations in the fuel level when traveling at high speeds, or on rough waters, offering a consistent, stable representation of the fuel level.

➢ *Fuel Consumption Rate*

Fuel consumption rate is up-to-the-minute fuel consumption in gallons (or liters) per hour.

For multiple outboards, each tachometer displays the consumption rate of the individual outboard that tachometer is monitoring. The speedometer displays the combined fuel consumption rate of all outboards.

NOTE: The fuel consumption rate can also be viewed on the tachometer. See “Fuel Consumption Rate” on page 14.

IMPORTANT: Fuel Economy, Estimated Fuel Left and Fuel Used screens all require the installation of an *I-Command* speedometer and a sensor interface module (SIM). It is recommended these components be installed by an authorized Dealer.

➢ *Fuel Economy*

IMPORTANT: A GPS measuring speed over ground is required for fuel economy readings. See an authorized Dealer.

Economy can presented as:
- Miles per gallon; (m/g)
- Nautical miles per gallon (nm/g); or
- Kilometers per liter (km/ltr).

➢ *Estimated Fuel Left*

Estimated fuel left is the amount of fuel available for use. There is a small percentage of unuseable fuel in the fuel tank. The fuel tank must be calibrated for an accurate estimate of the fuel left. (See “Fuel Tanks” on page 10.)

➢ *Fuel Used*

Fuel used is the total cumulative amount of fuel used by the outboard. When operating multiple outboards, the fuel used is the total amount of fuel used by all outboards. Additionally, fuel used is the total amount of fuel used from multiple fuel tanks (if installed). The fuel used can be reset by doing a trip log reset. (See “Trip Log Reset” on page 12.)

➢ *Low Fuel Warning*

When the fuel level in a fuel tank is 10% full (90% empty), a low fuel alarm will display on the Engine Status screen, and the alarm buzzer will sound. Acknowledge the alarm by pressing ENTER. The low fuel alarm will clear once the fuel tank is refilled.

⚠ WARNING ⚠

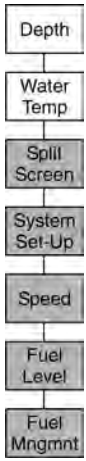
Running out of fuel could cause the operator of the boat to have diminished or no control of the vessel, presenting a risk of personal injury to the operator, passengers, and people who are nearby.

Water Depth

IMPORTANT: A transducer (enabling depth and temperature) or triducer (enabling depth, temperature, and speed) is required for depth display. See an authorized Dealer.

From the Main Menu screen, scroll to the Depth display.

Main Menu



The Water Depth screen shows the depth of the water directly under the boat.

The depth range is measured in feet or meters.

⚠ WARNING ⚠

Do not use depth reading as a navigational aid to prevent collision, grounding, boat damage, or personal injury. When boat is moving, water depth may change too quickly to allow time to react. Operate at slow speeds if shallow water or submerged objects are suspected.

Water Temperature (Sea)

IMPORTANT: A transducer (enabling depth and temperature) or triducer (enabling depth, temperature, and speed) is required for temperature display. See an authorized Dealer.

From the Main Menu screen, scroll to the Water Temperature display.

The Water Temperature screen displays the sea water temperature.

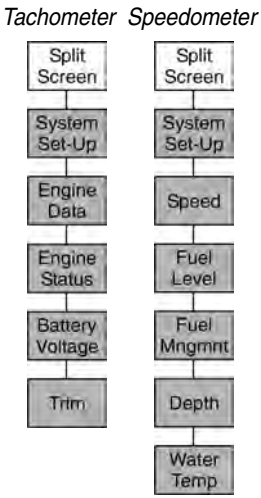
The temperature is measured in Fahrenheit (°F) or Celsius (°C).

Split Screens

Split screens enable one LCD screen to display two data sources. See “Split Screens” on page 26 for information about accessing and setting LCD split screens on both tachometer and speedometer gauges.

SPLIT SCREENS

A split screen allows the operator to view two separate data displays at the same time on one LCD screen.



Viewing split screen data — From the Main Menu of either gauge, press the DOWN button until the Split Screen menu appears. Press ENTER. The bar at the top of the split screen appears in reverse color. The display can now be customized to output any data combination desired. The UP button will scroll the available data displays on the left side of the screen. The DOWN button will scroll the available data displays on the right side of the screen. Once the desired displays appear, press ENTER to set the combination.

Tachometer data displays available in split screen mode:

- Barometric Pressure
- Engine Temperature
- Fuel Consumption Rate
- Oil Tank Level
- RPM
- Engine Trim
- Battery Voltage
- Water Pressure

Speedometer data displays available in split screen mode:

- Depth
- Estimated Fuel Left
- Fuel Consumption Rate
- Fuel Economy
- Fuel Level (Tank 1 or 2)
- Speed (SOG or SOW)
- Water Temperature

ADDING COMPONENTS

The *I-Command* gauge series allows for expansion to other components and instruments. The network gives flexibility to add NMEA 2000 certified devices, such as a GPS antenna, depth sounder, fish locator, or triducer.

Other Gauges

Smaller analog instruments may be added to the *I-Command* system for added engine data, protection, and for quick referencing.

See an authorized Dealer to determine compatibility and installation of additional gauges.

These optional instruments are plug-and-play, feature easy-to-read scales, and are backlighted for night viewing. All gauges complement the digital screen readings and include all necessary wiring.

Oil Tank Level

Water Pressure

Fuel Level

Voltage

Engine Trim

PRODUCT WARRANTY

BRP LIMITED WARRANTY FOR *EVINRUDE/JOHNSON* GENUINE PARTS AND ACCESSORIES SOLD IN THE UNITED STATES AND CANADA

Bombardier Recreational Products Inc. ("BRP") warrants its *Evinrude®*/*Johnson®* Genuine Parts and accessories ("Product") sold by authorized *Evinrude* or *Johnson* dealers in the fifty United States and Canada from defects in material or workmanship for the period and under the conditions described below. This limited warranty does not apply to Products not bearing the *Evinrude* or *Johnson* trademarks that are made by other manufacturers. This limited warranty extends to the original retail purchaser only ("Purchaser") and is not transferable to any subsequent owner. This warranty is available only on Products purchased as new and unused from a dealer authorized to distribute the Products in the country in which the sale occurred ("Dealer").

Powerhead assemblies are warranted for a period of SIX (6) CONSECUTIVE MONTHS from the date of purchase. All other Products are warranted for a period of TWELVE (12) CONSECUTIVE MONTHS from the date of purchase.

Purchaser must bring the Product, including any defective part therein, and proof of purchase of the Product (original bill of sale) to Dealer promptly after the appearance of the defect and, in any event, within the warranty period. Purchaser must sign the repair/work order prior to repair to validate warranty coverage and must provide BRP/Dealer with a reasonable opportunity to repair/replace the defective part. All replaced parts become the property of BRP.

BRP's obligations under this warranty are limited to, at its sole discretion, repairing or replacing parts of Product found to be defective in material or workmanship, in BRP's reasonable judgment. Repair or replacement of parts will be without charge for parts and labor, at any authorized Dealer. No claim of breach of warranty shall be cause for cancellation or rescission of the sale of Product to Purchaser. BRP reserves the right to improve, modify or change Products without assuming any obligation to modify Products previously manufactured. If warranty service is required outside of the fifty United States or Canada, Purchaser will bear responsibility for any additional charges due to local practices and conditions including, but not limited to, freight, insurance, taxes, license fees, import duties, and any financial charges levied by governments, states, territories and agencies.

The following are not warranted under any circumstances: (a) normal wear and tear; (b) routine maintenance items including, but not limited to, adjustments, oil changes, water pumps, carburetor maintenance, spark plug replacements, etc.; (c) cosmetic damage or paint changes due to exposure to the elements; or (d) damage caused by: improper or lack of installation, maintenance, winterization and/or storage; failure to follow the procedures and recommendations in the Operator's Guide; removal of parts, improper repairs, service, maintenance, or modification; use of parts or accessories not manufactured or approved by BRP that are either incompatible with Product or adversely affect its operation, performance, or durability; repairs done by anyone, including Purchaser, other than an authorized Dealer; abuse, misuse, abnormal use, neglect, racing, improper operation or operation of Product in a manner inconsistent with the Operator's Guide; external damage, accident, submersion, water ingestion, fire, theft, vandalism or act of God; operation with fuels, oils or lubricants not suitable for use with Product (see Operator's Guide); rust or corrosion; or cooling system blockage by foreign material.

This warranty will be voided in its entirety and rendered null and void: (a) where Product has been altered or modified in such a way so as to adversely affect its operation, performance or durability, or has been altered or modified to change its intended use; or (b) where Product is or has been used for racing or any other competitive activity, at any point.

ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE LIFE OF THIS EXPRESS LIMITED WARRANTY. ALL INCIDENTAL, CONSEQUENTIAL, DIRECT, INDIRECT OR OTHER DAMAGES OF ANY KIND ARE EXCLUDED FROM COVERAGE UNDER THIS WARRANTY INCLUDING, BUT NOT LIMITED TO: expense for gasoline, expense for transporting Product to and from Dealer, removal of Product from a boat and reinstallation, mechanic's travel time, in-and-out of water charges, slip or dock fees, trailering or towing, storage, telephone, cell phone, fax or telegram charges, rental of a like or replacement Product or boat during warranty services or down time, taxi, travel, lodging, loss of or damage to personal property, inconvenience, cost of insurance coverage, loan payments, loss of time, income, revenue, profits, enjoyment or use of Product.

SOME JURISDICTIONS DO NOT ALLOW FOR THE DISCLAIMERS, LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR OTHER EXCLUSIONS IDENTIFIED ABOVE. AS A RESULT, THEY MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS, AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS THAT MAY VARY FROM JURISDICTION TO JURISDICTION.

No distributor, Dealer or any other person is authorized to make any affirmation, representation or warranty regarding Product other than those contained in this limited warranty and, if made, shall not be enforceable against BRP. BRP reserves the right to modify this warranty at any time, being understood that such modification will not alter the warranty conditions applicable to the Products sold while this warranty is in effect. For assistance, please contact BRP US Inc. Customer Support Services, 250 Sea Horse Drive, Waukegan, IL, 60085, 1-847-689-7090 or visit **www.brp.com**.

For Products sold outside the fifty United States and Canada, the BRP Limited Warranty for *Evinrude/Johnson* Genuine Parts and Accessories Sold in the United States and Canada ("Limited Warranty") applies, except it is modified as follows:

- The Limited Warranty applies only to Products purchased as new and unused from a distributor or dealer authorized to distribute Products in the country in which the sale occurred.
- Products purchased for commercial use, or used commercially at any time during the warranty period, are warranted for SIX (6) CONSECUTIVE MONTHS from the date of purchase. Product is used commercially when it is used in connection with any work or employment that generates income, during any part of the warranty period. Product is also used commercially when, at any point during the warranty period, it is installed on a boat that has commercial tags or is licensed for commercial use.
- If warranty service is required outside of the country of original sale, Purchaser bears responsibility for any and all charges due to local practices and conditions that exceed or are in addition to customary charges in the country of sale, such as, but not limited to, freight, insurance, taxes, license fees, import duties, and any financial charges levied by governments, states, territories and agencies.
- For assistance, please contact BRP US Inc. Customer Support Services, 250 Sea Horse Drive, Waukegan, Illinois, 60085, 1-847-689-7090, or the affiliate of BRP Inc. where the Product was sold to the retail Purchaser.

No other change to the Limited Warranty shall be made or implied.

Effective as of December 1, 2001.

RPM
0
1
2
3
4
5
6
7
Fuel Rate
12.8 g/h
Avg Econ
6.1 mi/g
ENTER
MPH
km/h
0
10
20
30
40
50
60
70
Fuel
Tank 1
94%
ENTER

352830